FACILITY 10: eMarine Information Infrastructure (eMII)

IMOS NETCDF FILE NAMING CONVENTION

Version 1.5
August, 2015

NCRIS
National Research
Infrastructure for Australia
An Australian Government Initiative

UNIVERSITY *of*
TASMANIA
AUSTRALIA

Table of contents

PREFACE to version 1.5

An extra **data code**: 'Z' for any vertical reference parameter has been incorporated in 1.1.2 - Reference Table 2. This data code also replaces the data code 'P'.

The list of **platforms** and **platform codes** included in 1.1.3 Reference Table 3 has been updated.

File Version definitions in 1.1.4 have been updated.

Prefaces to previous versions of this document have been removed.

1 - FILE NAMING CONVENTION

For many data types, **IMOS** uses the netCDF (network Common Data Form) system, a set of software libraries and machine-independent data formats that support the creation, access, and sharing of array-oriented scientific data.

The main purpose of this document is to specify the format of filenames that will be used to distribute **IMOS** data in netCDF format.

IMOS netCDF file naming conventions are based on those prescribed by the **OceanSITES** User's Manual, version 1.1. The **OceanSITES** program is a global network of open-ocean sustained time series reference stations that have been implemented by an international partnership of researchers. More information about this project is available at http://www.oceansites.org.

1.1 - Data file naming convention

The file name extension of each **netCDF file** must be **".nc".**

Filenames can be up to 255 characters in length and are composed of up to 10 fields separated by **'_'** (underscore) characters.

Characters which can be used within fields are letters (A to Z) and whole numbers (0 to 9). The hyphen character (-) may also be used within fields.

The NetCDF file name format is:

IMOS_<Facility-Code>_<Data-Code>_<Start-date>_<Platform-Code>_FV<File-Version>_

<Product-Type>_<End-date>_<Creation_date>_<PARTX>.nc

The first 6 fields are mandatory and must conform to the following content guidelines:

1. IMOS: Name of the project[1]

---

[1] Any data produced by the IMOS project should be instantly identifiable as 'IMOS' data

2. <Facility-Code>: code representing a facility (and a sub-facility if applicable) (see 1.1.1 - Reference Table 1: Facility Codes).

3. <Data-Code>: list of data codes in alphabetical order from reference table 2. The data codes are descriptors of the primary parameters measured. Data codes do not list secondary parameters (see 1.1.2 - Reference Table 2: Data Codes).

4. <Start-date>: start date and time of the measurement, not of file creation. The date and time are formatted to international standard ISO8601. eMII requests that the time be in UTC.

    Date format is: YYYYMMDDTHHMMSSZ where T is the delimiter between date and time and Z indicates that time is in UTC. If time is not in UTC, local time must be shown as hours plus or minus from the longitudinal meridian. Z is not appended when local time is used. Examples of the time format are below.

    - 20081024T080000Z (UTC)

    - 20081024T180000+10 (Local)

    - 20081024T020000-06 (Local)

5. <Platform-Code>: code representing the platform[2] (see 0 Reference Table 3: Platform Codes).

6. <File-Version>: value representing the version of the file (see 1.1.4 Reference Table 4: File Version Codes).

The following 4 fields are optional:

7. <Product-Type>: This code will give information about the product included in the dataset.

---

[2] **Notes on platform codes:** The platform codes for data file naming conventions (reference table 2) are unique and if any is missing please contact info@emii.org.au.

Platform codes must be unique within an **IMOS** facility and must apply to either one particular unit of equipment or to one particular location.

To finalise platform codes, eMII needs more information about the formats of different 'platform' codes that are currently used by each facility. eMII anticipate that the codes already in use within many facilities will be suitable.

Characters which can be used are capital letters (A to Z) and whole numbers (0 to 9). The hyphen character (-) may also be used.

8. <End-date>: end date and time of the measurement. The data format is the same as the start date and preceded by the following characters "END-". An example of the format of the end date should be: "END-20081112T231255Z"

9. <Creation-date>: creation date and time of the file. The data format is the same as the start and end date and should be preceded by the characters "C-". An example of the format of the creation date should be "C-20081112T231255Z".

10. <PARTX>: when an IMOS data file size becomes excessive (e.g.: >100Mb), it can be split in smaller parts: PART1, PART2, … PARTN.

1.1.1 - Reference Table 1: Facility Codes

Facility	Sub-Facility (if applicable)	Code
Argo		ARGO
SOOP	Multi-disciplinary Underway Network XBT	SOOP-XBT
	Multi-disciplinary Underway Network CO2	SOOP-CO2
	Multi-disciplinary Underway Network CPR	SOOP-CPR
	Sensors on Tropical Research Vessels	SOOP-TRV
	Sea Surface Temperature Sensors	SOOP-SST
	Research Vessel Real Time Air-Sea Fluxes	SOOP-ASF
	Bio-Acoustic	SOOP-BA
	Sensors on Temperate Merchant Vessels	SOOP-TMV
ABOS	Southern Ocean Time Series	ABOS-SOTS
	Air-Sea Flux Stations	ABOS-ASFS
	Deepwater Arrays	ABOS-DA
ANFOG		ANFOG
AUV		AUV
ANMN	Queensland and Northern Australia	ANMN-QLD
	New South Wales	ANMN-NSW
	Southern Australia	ANMN-SA
	Western Australia	ANMN-WA
	Passive Acoustic Observatories	ANMN-PA
	National Reference Stations Analysis and Coordination	ANMN-NRS
	Acidification Moorings	ANMN-AM
ACORN		ACORN
AATAMS		AATAMS
FAIMMS		FAIMMS
SRS	Australian Satellite SST L2P Products	SRS-A

	Australian Ocean Distributed Archive and Access Centre	SRS-B
	Satellite Altimetry Calibration and Validation	SRS-Altimetry
	Bio-Optical database of Australian waters	SRS-OC-BODBAW
	Lucinda Jetty Coastal Observatory	SRS-OC-LJCO

1.1.2 - Reference Table 2: Data Codes

Data Code	Meaning
A	Acoustic measurements
B	Biology (plankton, fluorescence)
C	Conductivity (electrical conductivity of sea water)
E	Engineering or technical parameters
F	Fluxes (e.g. radiation, latent heat, sensible heat)
G	Gas (measurement and fluxes)
I	Images
K	Chemistry (nutrients, trace metals)
M	Meteorological parameters (e.g. wind, air pressure, air temperature)
O	Oxygen concentration (in sea water)
R	Raw data
S	Salinity (of sea water)
T	Temperature (of sea water)
U	Turbidity (of sea water)
V	Velocity (of sea water)
W	Wave parameters (significant wave height, peak period, peak direction …)
Z	Vertical reference parameters (pressure, depth, height_above_sensor, ...)

1.1.3 Reference Table 3: Platform Codes

	Facility	**Sub-facility**	**Platform Codes**	**Platform Description**	**Code Description**
1	Argo		Argo convention		No change to Argo data/file name formats
2	SOOP	XBT	PX34	Sydney - Wellington	XBT line identifier
			IX28	Hobart - Dumont D'Urville	
			PX30-31	Brisbane – Noumea - Suva/ Lautoka	
			IX1	Fremantle - Sunda Strait	
			IX12	Fremantle - Red Sea	
			PX2	Flores Sea - Torres Strait	
			IX22-PX11	Port Hedland - Japan	
			IX15-IX31	Mauritius – Fremantle-Melbourne	
			IX15	Mauritius- Fremantle	
			IX21-IX06	Cape of Good Hope – Mauritius – Malacca Strait	
			IX21	Cape of Good Hope - Mauritius	
			IX8	Mauritius - Bombay	
			IX9	Fremantle – Persian Gulf	
			PX06	Suva - Auckland	
			PX13	New Zealand - California	
			PX17	Tahiti - Panama	
			PX28	Tahiti – Auckland	
			PX31	Noumea - Suva	
			PX33	Hobart – Macquarie Island	
			PX35	Melbourne - Dunedin	
			PX3	Coral Sea	
			PX55	Melbourne – Wellington	
			PX57	Brisbane – Wellington	
			PX5	Brisbane – Japan	
			SO	Southern Ocean	
			Tasman-Sea	Tasman Sea	
		CO2	VLHJ	RV Southern Surveyor	Ship callsign
			FHZI	RV L'Astrolabe	
			VNAA	RSV Aurora Australis	
			ZMFR	RV Tangaroa	
		CPR	Unknown		ID for CPR deployed, 2-6 letter/number codes eg. Unit 1 = U001 *or*

					CPR line if more appropriate
		BA	ZMTW	Janas	Ship callsign
			ZM 7552	Kaharoa	
			E5WW	Will Watch	
			VLHJ	Southern Surveyor	
			VNAA	Aurora Australis	
			VHGI	Southern Champion	
			ZMRE	Rehua	
			LFB13191P	Santo Rocco	
			VHLU	Austral Leader II	
			WTEE	Oscar Elton Sette	
		TMV	VLST	MV Spirit of Tasmnia I	Ship callsign
		Trop Res	VNCF	Cape Ferguson	Ship callsign
			VMQ9273	Solander	
		SST	VLHJ	RV Southern Surveyor	Ship callsign
			VHW5167	MV Seaflyte (Rottnest Island Ferry)	
			FHZI	RV L'Astrolabe	
			HSB3402	MV Xutra Bhum	
			HSB3403	MV Wana Bhum	
			VHW6005	RV Linnaeus	
			VNAA	RSV Aurora Australis	
			VLST	MV Spirit of Tasmania I	
			VNSZ	MV Spirit of Tasmania II	
			VJQ7467	MV Fantasea (Whitsundays Ferry)	
			VRDU8	OOCL Panama	
			C6FS9	MV Stadacona	
			VNAH	MV Portland	
			MNPJ3	MV Pacific Sun	
			VROB	MV Highland Chief	
			VNVR	MV Iron Yandi	
			V2BJ5	MV ANL Yarunga	
			VRZN9	Pacific Celebes	
			9HA2479	Pacific Sun	
			ZMFR	RV Tangaroa	
		A-S Flux		As for SST Platform Codes	Ship callsign
3	ABOS	ABOS-SOTS	SAZOTS	Sub-Antarctic Sediment trap mooring	
			PULSE5H	Pulse 5 'heavy' mooring	
			PULSE5L	Pulse 5 'light' mooring	
			PULSE6	Pulse 6 mooring	
		ABOS-SOFS	SOFS	Southern Ocean Flux	

				Station mooring	
		ABOS-DA	EAC1	East Australian Current 1 mooring	
			EAC2	East Australian Current 2 mooring	
			EAC3	East Australian Current 3 mooring	
			EAC4	East Australian Current 4 mooring	
			EAC5	East Australian Current 5 mooring	
			ITFOMB	Ombai mooring	
			ITFTIN	Timor North mooring	
			ITFTSL	Timor Sill mooring	
			POLYNYA1	Polynya 1 mooring	
			POLYNYA2	Polynya 2 mooring	
			POLYNYA3	Polynya 3 mooring	
4	ANFOG		SG151	Seaglider	Manufacturer unit number
			SG152	Seaglider	
			SG153	Seaglider	
			SG154	Seaglider	
			SG155	Seaglider	
			SG514	Seaglider	
			SG516	Seaglider	
			SG517	Seaglider	
			SG519	Seaglider	
			SG520	Seaglider	
			SG521	Seaglider	
			SG540	Seaglider	
			SL084	Slocum	
			SL190	Slocum	
			SL209	Slocum	
			SL210	Slocum	
			SL239	Slocum	
			SL248	Slocum	
			SL281	Slocum	
			SL286	Slocum	
			SL287	Slocum	
			SL130	Slocum	
			SL104	Slocum	
			SL106	Slocum	
			SL109	Slocum	
5	AUV		SIRIUS		If other AUVs are recruited to the facility, they will need codes
6	ANMN	QLD	GBROTE	One Tree East	AIMS mooring codes

			GBRHIS	Heron Island South	
			GBRHIN	Heron Island North	
			GBRELR	Elusive Reef	
			GBRCCH	Capricorn Channel	
			GBRMYR	Myrmidon	
			GBRPPS	Palm Passage	
			GBRLSH	Lizard Shelf	
			GBRLSL	Lizard Slope	
			ITFJBG	Joseph Bonaparte Gulf	
			ITFFTB	Flat Top Banks	
			ITFMHB	Margaret Harries Banks	
			ITFTIS	Timor South	
			KIM050	Kimberley 50m	
			KIM100	Kimberley 100m	
			KIM200	Kimberley 200m	
			KIM400	Kimberley 400m	
			PIL050	Pilbara 50m	
			PIL100	Pilbara 100m	
			PIL200	Pilbara 200m	
		NSW	BMP090	Batemans Marine Park 90m	NSW-IMOS mooring codes
			BMP120	Batemans Marine Park 120m	
			CH100	Coffs Harbour 100m	
			CH070	Coffs Harbour 70m	
			SYD100	Sydney 100m	
			SYD140	Sydney 140m	
			PH100	Port Hacking 100m	
			JB070	Jervis Bay	
			ORS065	Ocean Reference Station Sydney	
		SA	SAM1DS	M1 Deep Slope	SAIMOS mooring codes
			SAM2CP	M2 Cabbage Patch	
			SAM3MS	M3 Mid-Slope	
			SAM4CY	M4 Canyons	
			SAM5CB	M5 Coffin Bay	
			SAM6IS	M6 Investigator Strait	
			SAM7DS	M7 Deep-Slope	
			SAM8SG	M8 Spencer Gulf Mouth	
		WA	WATR05	Two Rocks 50m	WAIMOS mooring codes
			WATR10	Two Rocks 100m	
			WATR15	Two Rocks 150m	
			WATR20	Two Rocks 200m (BGC)	
			WATR50	Two Rocks 500m	
			WACA20	Canyon 200m Head	

				(BGC)	Acoustic mooring site codes
			WACANO	Canyon 500m North	
			WACASO	Canyon 500m South	
		Acoustic	PAPCA1	Perth Canyon, WA 1	
			PAPCA2	Perth Canyon, WA 2	
			PAPCA3	Perth Canyon, WA 3	
			PAPCA4	Perth Canyon, WA 4	
			PAPOR1	Portland, VIC 1	
			PAPOR2	Portland, VIC 2	
			PAPOR3	Portland, VIC 3	
			PAPOR4	Portland, VIC 4	
			PASYD1	Sydney, NSW 1	
			PASYD2	Sydney, NSW 2	
			PASYD3	Sydney, NSW 3	
			PASYD4	Sydney, NSW 4	
		NRS	NRSYON	Yongala, QLD	NRS site codes (multiple platforms at some sites)
			NRSDAR	Darwin, NT	
			NRSROT	Rottnest, WA	
			NRSMAI	Maria Island, TAS	
			NRSKAI	Kangaroo Island, SA	
			NRSESP	Esperance, WA	
			NRSNIN	Ningaloo, WA	
			NRSNSI	North Stradbroke Island, QLD	
			NRSPHB	Port Hacking, NSW	
		AM	NRSMAI	Maria Island, TAS	NRS site code where acidification mooring is located
			NRSESP	Esperance, WA	
			NRSYON	Yongala, QLD	
7	ACORN		CBG	Capricorn Bunker Group	ACORN codes
			TAN	CBG Tannum Sands	
			LEI	CBG Lady Elliot Island	
			SAG	South Australia Gulf	
			CSP	SAG Cape Spencer	
			CWI	SAG Cape Wiles	
			BONC	Bonnie Coast	
			NOCR	BONC Noora Creena	
			BFCV	BONC Blackfellows cave	
			COF	Coffs Harbour	
			RRK	COF Red Rock	
			NNB	COF North Nambucca	
			ROT	Rottnest Shelf	
			FRE	ROT Fremantle	
			GUI	ROT Guilderton	
			TURQ	Turquoise Coast	
			GHED	TURQ Green Head	

			LANC	TURQ Lancelin	
			SBRD	TURQ Seabird	
			CRVT	TURQ Cervantes	
8	AATAMS		SYD1	Sydney line (1-30)	Location and receiver position e.g. SYD1 = Sydney line position 1, SYD30 = Sydney line position 30.
			PER1	Perth line (1-30)	
			NRETAN1	Ningaloo Reef Ecological Tracking Array North line (1-7)	
			NRETAC1	NRETA Central line (1-7)	
			NRETAS1	NRETA South line (1-18)	
			MAL1	Mallacoota line (1-30)	
			PORT1	Portland line (1-30)	
			COF1	Coffs Harbour line (1-30)	
9	FAIMMS		HIRP1	Heron Island Relay Pole 1	AIMS sensor network codes eg. Heron Island Relay Pole 1 = HIRP1.
			HIRP2	Heron Island Relay Pole 2	
			HIRP3	Heron Island Relay Pole 3	
			HIRP4	Heron Island Relay Pole 4	
			HIRP5	Heron Island Relay Pole 5	
			HIRP6	Heron Island Relay Pole 6	
			HISF1	Heron Island Sensor Float 1	
			HISF2	Heron Island Sensor Float 2	
			HISF3	Heron Island Sensor Float 3	
			HISF4	Heron Island Sensor Float 4	
			HISF5	Heron Island Sensor Float 5	
			HIWS	Heron Island Weather Station	
			HIBSE	Heron Island Base Station	
			DAVSF1	Davis Reef Sensor Float 1	
			DAVSF2	Davis Reef Sensor Float 2	
			DAVSF3	Davis Reef Sensor Float 3	
			DAVSF4	Davis Reef Sensor Float 4	
			DAVSF5	Davis Reef Sensor Float 5	
			LIZRP2	Lizard Island Relay Pole 2	
			LIZSF1	Lizard Island Sensor Float1	
			LIZSF2	Lizard Island Sensor Float2	
			LIZSF3	Lizard Island Sensor Float3	
			LIZSF4	Lizard Island Sensor Float4	

			LIZWS	Lizard Island weather station	
			OTIRP1	One Tree Island Relay Pole 1	
			OTIRP2	One Tree Island Relay Pole 2	
			OTIRP3	One Tree Island Relay Pole 3	
			OTIWS	One Tree Island Weather Station	
			OTIBSE	One Tree Island Base Station	
			OIRP1	Orpheus Island Relay Pole1	
			OIRP2	Orpheus Island Relay Pole2	
			OIRP3	Orpheus Island Relay Pole3	
			OISF1	Orpheus Island Sensor Float 1	
			OISF2	Orpheus Island Sensor Float 2	
10	SRS	ALT	STO	Storm bay	Data products in netCDF format may need defining 'codes', eg. SSTL2P. These codes may necessarily be quite complex.
			BAS	Bass strait	
		OC-BODBAW			Ship callsign
		OC-SOOP_Rad	VMQ9273	Solander	Ship callsign
			VLHJ	RV Southern Surveyor	

1.1.4 Reference Table 4: File Version Codes

The File Version code will enable a file creator to specify the processing version of the file. The different data levels listed below were derived from a discussion paper "Data Standards Framework for the IMOS Instrument Data" prepared by Scott Bainbridge (AIMS) for the AODCJF.

File Version	Definition	Description
FV00	Level 0 – Raw data	Raw data is defined as unprocessed data and data products that have not undergone quality control. The data may be in engineering or physical units, time and location details can be in relative units and values can be pre-calibration measurements. Level 0 data is not suitable for public access within IMOS.
FV01	Level 1 – Quality Controlled data	Quality controlled data have passed quality assurance procedures such as automated routines and sensor calibration or visual inspection and removal of obvious errors. The data are in physical units using standard SI metric units with calibration and other pre-processing routines applied, all time and location values are in absolute coordinates to comply with standards and datum. Data includes flags for each measurement to indicate the estimated quality of the measurement. Metadata exists for the data or for the higher level dataset that the data belongs to. This is the standard IMOS data level and is what should be made available to eMII and to the IMOS community.
FV02	Level 2 – Derived Products	Derived products require scientific and technical interpretation. Normally these will be defined by the community that collects or utilises the data.
FV03	Level 3 – Interpreted Products	These products require researcher driven analysis and interpretation, model based interpretation using other data and / or strong prior assumptions.
FV04	Level 4 – Knowledge Products	These products require researcher driven scientific interpretation and multidisciplinary data integration and include model-base interpretation using other data and/or strong prior assumptions.

1.2 - Examples

Example data file names for each **IMOS** facility can be found in this section. These examples are suggestions only.

Please provide eMII with feedback on this discussion document if you believe that these suggestions will not work for your facility.

1.2.1 -Facility 1: ARGO

eMII intend to use the internationally accepted Argo netCDF conventions for GDAC data file naming, ie:

<FloatID>_prof.nc, <FloatID>_traj.nc, <FloatID>_meta.nc, <FloatID>_tech.nc

1.2.2 -Facility 2: SOOP

Multidisciplinary Underway Network

XBT

IMOS_SOOP-XBT_T_20091223T140300Z_PX2_FV01_ID-134215.nc

This file would contain quality controlled Temperature data starting from the 23rd of December 2009 at 14:03 UTC and collected along XBT line PX2 by the XBT group in the **IMOS** SOOP Multidisciplinary Underway Network sub-facility.

CO2

IMOS_SOOP-CO2_GST_20080901T120000Z_VLHJ_FV01.nc

This file would contain quality controlled Gas, Salinity and Temperature data starting from the 1st September 2008 at 12:00 UTC and collected with the CO2 system (and associated underway systems) on the Southern Surveyor by the CO2 group in the **IMOS** SOOP Multidisciplinary Underway Network sub-facility.

Bio-acoustic

IMOS_SOOP-BA_AE_20130623T065936Z_VLHJ_FV02_Southern-Surveyor-EK60-38-120_END-20130625T002210Z_C-20140815T061308Z.nc

This file would contain a product of quality controlled acoustic and engineering parameters collected on RV Southern Surveyor (callsign VLHJ) from an EK60 acoustic transducer operating at 38kHz and sampling 120 vertical cells during a cruise between the 23rd of July 2013 to the 25th of July 2013 created by the **IMOS** SOOP Bio-acoustic sub-facility on the 15th of August 2014.

Temperate Merchant Vessel

IMOS_SOOP-TMV_TSB_20120131T084302Z_VLST_FV02_transect-D2M_END-20120131T184852Z.nc

This file would contain a product of quality controlled temperature, salinity and biology parameters collected on MV Spirit of Tasmania I (callsign VLST) during transect Devonport to Melbourne between the 31st of January 2012 to the 31st of January 2012 by the **IMOS** SOOP TMV sub-facility.

Sensors on Tropical Research Vessels

IMOS_SOOP-TRV_T_20080930T002727Z_VNCF_FV01_END-20081013T093401Z.nc

This file would contain quality controlled temperature data collected on RV Cape Ferguson during a cruise between the 30th of September 2008 to the 13th of October 2008 by the **IMOS** SOOP Sensors on Tropical Research Vessels sub-facility.

SST

IMOS_SOOP-SST_T_20081030T122500Z_VHW5167_FV01_C-20140815T061308Z.nc

This file would contain quality controlled Temperature data starting from the 30th of October 2008 at 12:25 UTC, collected from the Rottnest Island Ferry (callsign VHW5167) created by the **IMOS** SOOP SST sub-facility on the 15th of August 2014.

Air-Sea Flux

IMOS_SOOP-ASF_MT_20080204T100000Z_VLHJ_FV01_C-20140815T061308Z.nc

This file would contain quality controlled Meteorological and Temperature data starting from the 4th of February 2008 at 10:00 UTC, collected from the Southern Surveyor (callsign VLHJ) created by the **IMOS** SOOP Air-Sea Flux sub-facility on the 15th of August 2014.

1.2.3 -Facility 3: SOTS

IMOS_ABOS-SOTS_20090928T000000Z_PULSE_FV01_PULSE-6-2009_END-20100318T030000Z_C-20140603T061638Z.nc

This file would contain quality controlled data starting from the 28th September 2009 at 00:00 UTC to the 18th March 2010 at 03:00 UTC collected by the 6th deployment of the Pulse mooring and created by the **IMOS** ABOS-SOTS facility on the 3rd June 2014.

1.2.4 -Facility 4: ANFOG

IMOS_ANFOG_BCEOPSTUV_20130530T233430Z_SG516_FV01_timeseries_END-20130721T161753Z.nc

This file would contain quality controlled Biology, Conductivity, Engineering, Oxygen, Pressure, Salinity, Temperature, Turbidity and Current Velocity data starting from the 30th May 2013 at 23:34:30 UTC to the 21st July 2013 at 16:18 UTC, collected by Seaglider Unit 516 of the **IMOS** ANFOG facility.

1.2.5 -Facility 5: AUV

IMOS_AUV_ST_20080812T122500Z_SIRIUS_FV00.nc

This file would contain raw Temperature and Salinity data starting from the 12th August 2008 at 12:25 UTC collected by AUV Sirius of the **IMOS** AUV facility.

1.2.6 -Facility 6: ANMN

6a Qld and Northern Aust

IMOS_ANMN-QLD_VATPE_20111017T062000Z_GBRMYR_FV01_GBRMYR-1110-Continental-194_END-20120412T221800Z_C-20121112T033900Z.ncThis file would contain quality controlled

Current Velocity, Acoustic, Temperature, Pressure and Engineering data starting from the 17th October 2011 at 06:20 UTC to the 12th April 2012 at 22:18 UTC, collected at the Myrmidon mooring site during deployment 1110 by a Nortek Continental ADCP set at the nominal depth of 194 metres and created by the **IMOS** ANMN Queensland and Northern Australia sub-facility the 12th November 2012.

6b NSW

IMOS_ANMN-NSW_TZ_20140603T033500Z_PH100_FV01_PH100-1406-Aqualogger-520T-96_END-20140910T234500Z_C-20141028T023153Z.ncThis file would contain quality controlled Temperature and Depth data starting from the 3rd June 2014 at 03:35 UTC to the 10th September 2014 at 23:45 UTC, collected at the Port Hacking 100m mooring site during the deployment 1406 by an Aqualogger 520T set at the nominal depth of 96 metres and created by the **IMOS** ANMN NSW sub-facility the 28th October 2014.

1.2.7 -Facility 7: ACORN

IMOS_ACORN_RV_20150323T020000Z_NOCR_FV00_radial.nc

This file would contain raw Current Velocity radial data on 23rd of March 2015 at 02:00 UTC from the South Australia radar station Nora Creina, from the **IMOS** ACORN facility.

IMOS_ACORN_V_20140606T133000Z_ROT_FV01_1-hour-avg.nc

This file would contain quality controlled hourly averaged Current Velocity data on 6th of July 2014 at 13:30 UTC from the Western Australia radar site Rottnest Shelf, from the **IMOS** ACORN facility.

1.2.8 -Facility 8: AATAMS

IMOS_AATAMS-SATTAG_TSP_20110420T023000Z_Q9900434_END-20110422T230000Z_FV00.ncThis file would contain raw Temperature, Salinity and Pressure data starting from the 20th April 2011 at 02:30 UTC to 22nd April 2011 at 23:00 UTC transmitted by satellite tag transmitter WMO code Q9900434 the **IMOS** AATAMS-SATTAG facility.

1.2.9 -Facility 9: FAIMMS

IMOS_FAIMMS_T_20081201T015928Z_HIRP1_FV01_END-20090101T000000Z_C-20141107T163648Z.ncThis file would contain quality controlled Temperature data from the 1st December 2008 at 01:59 UTC to the 1st of January 2009 at 00:00 UTC collected on Heron Island Relay Pole 1 and created by the **IMOS** FAIMMS facility on the 7th of November 2014.